

Patent Number EP-805463-A1  
Title High thermal conductivity composite useful as heat sink  
- comprises highly oriented graphite flakes in a  
polymeric binder  
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Abstract A composite composition comprises particles of highly  
oriented graphite in the form of flakes having an  
hexagonal crystal orientation and an aspect ratio of at  
least 5:1 and a binder which, when polymerised under  
compression, forms a solid with high thermal  
conductivity and low density. USE - The composition is  
suitable for use as a heat sink in high power electronic  
assemblies and component sor in individual integrated  
circuits. ADVANTAGE - The ratio of thermal conductivity  
to mass density for a composite formed in accordance  
with the present invention is much higher than for  
copper or aluminium. Dwg.0/4